



PTO/SB/08A (08-03)  
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		<b>Complete if Known</b>													
Sheet <span style="border: 1px solid black; padding: 0 10px;">  </span> of <span style="border: 1px solid black; padding: 0 10px;">  </span>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/728,721</td> </tr> <tr> <td>Filing Date</td> <td>December 5, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Wakefield, Todd D.</td> </tr> <tr> <td>Art Unit</td> <td>2165</td> </tr> <tr> <td>Examiner Name</td> <td>Farhan Syed</td> </tr> <tr> <td>Attorney Docket Number</td> <td>03760.018/5135P</td> </tr> </table>		Application Number	10/728,721	Filing Date	December 5, 2003	First Named Inventor	Wakefield, Todd D.	Art Unit	2165	Examiner Name	Farhan Syed	Attorney Docket Number	03760.018/5135P
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		Number-Kind Code <sup>2</sup> (if known)			
FS		US- 4,914,590	04-03-1990	Loatman et al.	
		US- 5,694,523	12-02-1997	Wical	
		US- 5,933,818	08-03-1999	Kasravi et al.	
		US- 20030167266-A1	09-04-2003	Saldanha et al.	
		US- 6,304,870	10-16-2001	Kushmerick et al.	
		US- 6,102,969	08-15-2000	Christianson et al.	
		US- 5,890,103	03-30-1999	Carus	
		US- 5,768,580	06-16-1998	Wical	
		US- 5,887,120	03-23-1999	Wical	
		US- 5,918,236	06-29-1999	Wical	
		US- 5,930,788	07-27-1999	Wical	
		US- 5,940,821	08-17-1999	Wical	
		US- 5,953,718	09-14-1999	Wical	
		US- 5,963,940	10-05-1999	Liddy et al.	
		US- 6,038,560	03-14-2000	Wical	
FS		US- 6,061,675	05-09-2000	Wical	
		US- 6,076,088	06-13-2000	Paik et al.	
		US- 6,199,034	03-06-2001	Wical	
FS		US- 6,263,335	07-17-2001	Paik et al.	

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
FS		WO-98/24016	06-04-1998	Devoino et al.		
		WO-99/18527	04-15-1999	Batchilo et al.		
FS		WO-00/14651	03-16-2000	Tsourikov et al		
		WO-00/46703	08-10-2000	Devoino et al.		

Examiner Signature	/Farhan Syed/ (05/30/2006)	Date Considered	05/30/2006
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STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/728,721
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First Named Inventor	Wakefield, Todd D.
Art Unit	2165
Examiner Name	Farhan Syed
Attorney Docket Number	03760.018/5135P

Sheet 2 of 10**U. S. PATENT DOCUMENTS**

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FS		US- 6,460,034	10-01-2002	Wical	
		US- 6,487,545	11-26-2002	Wical	
		US- 6,507,829	01-14-2003	Richards et al.	
		US- 6,513,006	01-28-2003	Howard et al.	
		US- 6,523,026	02-18-2003	Gillis	
		US- 6,553,385	04-22-2003	Johnson et al.	
		US- 6,567,805	05-20-2003	Johnson et al.	
		US- 6,571,235	05-27-2003	Marpe et al.	
		US- 6,584,470	06-24-2003	Veale	
		US- 6,594,658	07-15-2003	Woods	
		US- 6,601,026	07-29-2003	Appelt et al.	
		US- 6,604,094	08-05-2003	Harris	
		US- 6,615,209	09-02-2003	Gomes et al.	
		US- 6,618,725	09-09-2003	Fukuda et al.	
FS		US- 20030163302	08-28-2003	Yin	
		US-			
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FS		US- 4,965,763	10-23-1990	Zamora	
		US- 4,992,972	02-12-1991	Brooks et al.	
		US- 5,146,405	09-08-1992	Church	
		US- 5,614,899	03-25-1997	Tokuda et al.	
		US- 5,696,916	12-09-1997	Yamazaki et al.	
		US- 5,799,268	08-25-1998	Boguraev	
		US- 5,802,504	09-01-1998	Suda et al.	
		US- 5,844,798	12-01-1998	Uramoto	
		US- 5,878,385	03-02-1999	Bralich et al.	
		US- 5,901,068	05-04-1999	Batchilo et al.	
		US- 6,056,428	05-02-2000	Devoino et al.	
		US- 6,167,370	12-26-2000	Tsourikov et al.	
FS		US- 6,202,043	03-13-2001	Devoino et al.	
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FS		US- 4,864,502	09-05-1989	Kucera et al.	
		US- 4,868,750	09-19-1989	Kucera et al.	
		US- 4,887,212	12-12-1989	Zamora et al.	
		US- 4,905,138	02-27-1990	Bourne	
		US- 4,994,966	02-19-1991	Hutchins	
		US- 5,068,789	11-26-1991	van Vliembergen	
		US- 5,083,268	01-21-1992	Hemphill et al.	
		US- 5,164,899	11-17-1992	Sobotka et al.	
		US- 5,225,981	07-06-1993	Yokogawa	
		US- 5,243,520	09-07-1993	Jacobs et al.	
		US- 5,268,840	12-07-1993	Chang et al.	
		US- 5,297,040	03-22-1994	Hu	
		US- 5,323,316	06-21-1994	Kadashevich et al.	
		US- 5,369,577	11-29-1994	Kadashevich et al.	
		US- 5,424,947	06-13-1995	Nagao et al.	
		US- 5,438,512	08-01-1995	Mantha et al.	
		US- 5,559,693	09-24-1996	Anick et al.	
		US- 5,682,539	10-28-1997	Conrad et al.	
FS		US- 5,687,384	11-11-1997	Nagase	

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FS		US- 5,721,938	02-24-1998	Stuckey	
		US- 5,752,052	05-12-1998	Richardson et al.	
		US- 5,781,879	07-14-1998	Arnold et al.	
		US- 5,878,386	03-02-1999	Coughlin	
		US- 5,926,784	07-20-1999	Richardson et al.	
		US- 5,930,746	07-27-1999	Ting	
		US- 5,960,384	09-28-1999	Brash	
		US- 5,963,894	10-05-1999	Richardson et al.	
		US- 5,991,539	11-23-1999	Williams	
		US- 6,052,693	04-18-2000	Smith et al.	
		US- 6,138,087	10-24-2000	Budzinski	
		US- 6,182,029	01-30-2001	Friedman	
		US- 6,223,150	04-24-2001	Duan et al.	
		US- 6,243,669	06-05-2001	Horiguchi et al.	
		US- 6,446,081	09-03-2002	Preston	
		US- 6,505,157	01-07-2003	Elworthy	
		US- 6,535,886	03-18-2003	Koontz	
		US- 6,553,385	04-22-2003	Johnson et al.	
FS		US- 6,556,964	04-29-2003	Haug et al.	

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		US-			
		US- 5,060,155	10-22-1991	van Zuijlen	
		US- 5,095,432	03-10-1992	Reed	
		US- 5,146,406	09-08-1992	Jensen	
		US- 5,311,429	05-10-1994	Tominaga	
		US- 5,418,717	05-23-1995	Su et al.	
		US- 5,438,511	08-01-1995	Maxwell, III et al.	
		US- 5,475,587	12-12-1995	Anick et al.	
		US- 5,490,061	02-06-1996	Tolin et al.	
		US- 5,594,837	01-14-1997	Noyes	
		US- 5,727,222	03-10-1998	Maxwell, III et al.	
		US- 5,761,631	06-02-1998	Nasukawa	
		US- 5,794,050	08-11-1998	Dahlgren et al.	
		US- 5,819,210	10-06-1998	Maxwell, III et al.	
		US- 5,841,900	11-24-1998	Rahgozar et al.	
		US- 5,878,406	03-02-1999	Noyes	
		US- 5,903,860	03-11-1999	Maxwell, III et al.	
FS		US- 5,963,742	10-05-1999	Williams	

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/728,721
Filing Date	December 5, 2003
First Named Inventor	Wakefield, Todd D.
Art Unit	2165
Examiner Name	Farhan Syed
Attorney Docket Number	03760.018/5135P

Sheet 7 of 10**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
FS		US- 5,966,686	10-12-1999	Heidorn et al.	
		US- 5,983,169	11-09-1999	Kozma	
		US- 5,995,922	11-30-1999	Penteroudakis et al.	
		US- 5,999,896	12-07-1999	Richardson et al.	
		US- 6,023,760	02-08-2000	Karttunen	
		US- 6,055,494	04-25-2000	Friedman	
		US- 6,061,675	05-09-2000	Wical	
		US- 6,064,953	05-16-2000	Maxwell, III et al.	
		US- 6,108,620	08-22-2000	Richardson et al.	
		US- 6,128,596	10-03-2000	Mackie	
		US- 6,163,767	12-19-2000	Tang et al.	
		US- 6,199,034	03-06-2001	Wical	
		US- 6,263,335	07-17-2001	Paik et al.	
		US- 6,272,495	08-07-2001	Hetherington	
		US- 6,289,304	09-11-2001	Grefenstette	
		US- 6,292,771	09-18-2001	Haug et al.	
		US- 6,360,197	03-19-2002	Wu et al.	
		US- 6,487,545	11-26-2002	Wical	
FS		US- 6,571,240	03-27-2003	Ho et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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of

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Application Number	10/728,721
Filing Date	December 5, 2003
First Named Inventor	Wakefield, Todd I
Art Unit	2165
Examiner Name	Farhan Syed
Attorney Docket Number	03760.018/5135P

## U. S. PATENT DOCUMENTS

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Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
FS		US- 6,609,091	08-19-2003	Budzinski	
		US- 6,611,825	08-26-2003	Billheimer et al.	
		US- 20020007358	01-17-2002	Johnson et al.	
		US- 20020010714	01-24-2002	Hetherington	
		US- 20020013793	01-31-2002	Bergan et al.	
		US- 20020032740	03-14-2002	Stern	
		US- 20020042711	04-11-2002	Lin	
		US- 20020046018	04-18-2002	Marcu et al.	
		US- 20020046019	04-18-2002	Verhagen et al.	
		US- 20020102025	08-01-2002	Wu et al.	
		US- 20020111793	08-15-2002	Luo et al.	
		US- 20020123881	09-05-2002	Schmid et al.	
		US- 20020128816	09-12-2002	Haug et al.	
		US- 20020128819	09-12-2002	Jessee et al.	
		US- 20020196679	12-26-2002	Lavi et al.	
		US- 20030004716	01-02-2003	Haigh et al.	
		US- 20030074186	04-17-2003	Wang	
		US- 20030074187	04-17-2003	Ait-Mokhtar et al.	
FS		US- 20030078899	04-24-2003	Shanahan	

## FOREIGN PATENT DOCUMENTS

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Sheet 9 of 10

Application Number	10/728,721
Filing Date	December 5, 2003
First Named Inventor	Wakefield, Todd D
Art Unit	2165
Examiner Name	Farhan Syed
Attorney Docket Number	03760.018/5135P

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**Examiner  
Signature**

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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/728,721
				Filing Date	December 5, 2003
				First Named Inventor	Wakefield, Todd D.
				Art Unit	2165
				Examiner Name	Farhan Syed
				Attorney Docket Number	03760.018/5135P
Sheet	10	of	12		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
FS		BEAN, "Corpus-Based Identification ...", 27th Annual Meeting of the Association of Computational Linguistics, June 20-26 1999, p. 373-380, University of Maryland, USA	
		RILOFF, "An Empirical Approach to Conceptual Case Frame Acquisition", Proceedings of the Sixth Workshop on Very Large Corpora, 1998	
		RILOFF, "Little Words Can Make a...", Proceedings of the 18th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, 1995, pp. 130-136	
		RILOFF, "Using Learned Extrac...", Connectionist, Statistical, and Symbolic Approaches to Learning for Natural Language Processing, 1996, Springer-Verlag, Berlin, pp. 275-289	
		RILOFF, "Automatically Constructing a Dictionary for Informa...", Proceedings of the Eleventh National Conference on Artificial Intelligence, 1993, MIT Press, pages 811-816	
		RILOFF, "Automatically Generating Extraction Patters from Untagged Text", Proceedings of the Thirteenth National Conference on Artificial Intelligence, 1996, pp. 1044-1049	
		ZICKUS, "A Software Engineering Approach to Developing an Object-Oriented Lexical Access Database and Semantic Reasoning Module", 1995, University of Delaware	
		GIRARDI, "An Approach to Improve the Effectiveness of Software...", Proceedings of the Third Irvine Software Symposium (ISS'93), April 30, 1993, Irvine, California, pp. 89-100	
FS		"State-of-the-art of Spoken Language Systems - a Survey", Sept. 1992, Speech Technology Centre, Aalborg University, Aalborg, Denmark	

Examiner Signature	/Farhan Syed/ (05/30/2006)	Date Considered	05/30/2006
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